PRAVEEN'S

GRAB
A JOB

Leadership.
Quality.

Cloud
(AWS)

Security   Automd   + Red Hat
          Monitoring   system

                    Devops   Kubernets

                    CICD Anthology

Maven   Configuration
& Slave

Devops is not just devops

Singam batch 2.0

X tools

AMAZON / FLIPKART/ PAYTM -> CICD
[CONTINOUS INTEGRATION AND
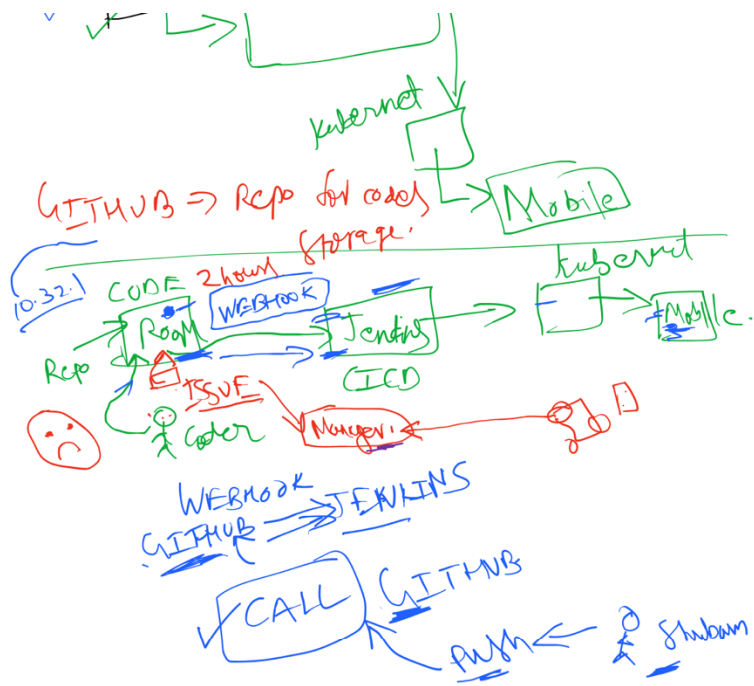CONTINUOUS DEPLOYMENT]

FASTER DEPLOYMENTS

REDUCE COST
EFFICIENCY

......

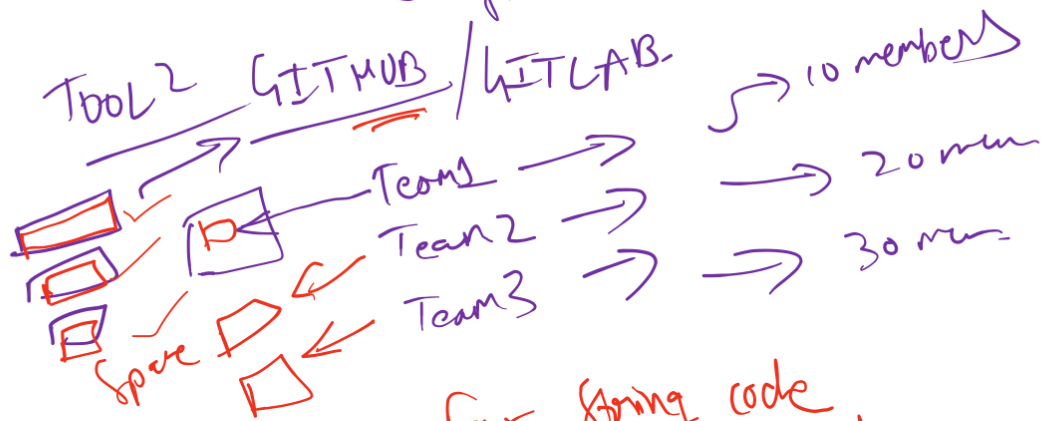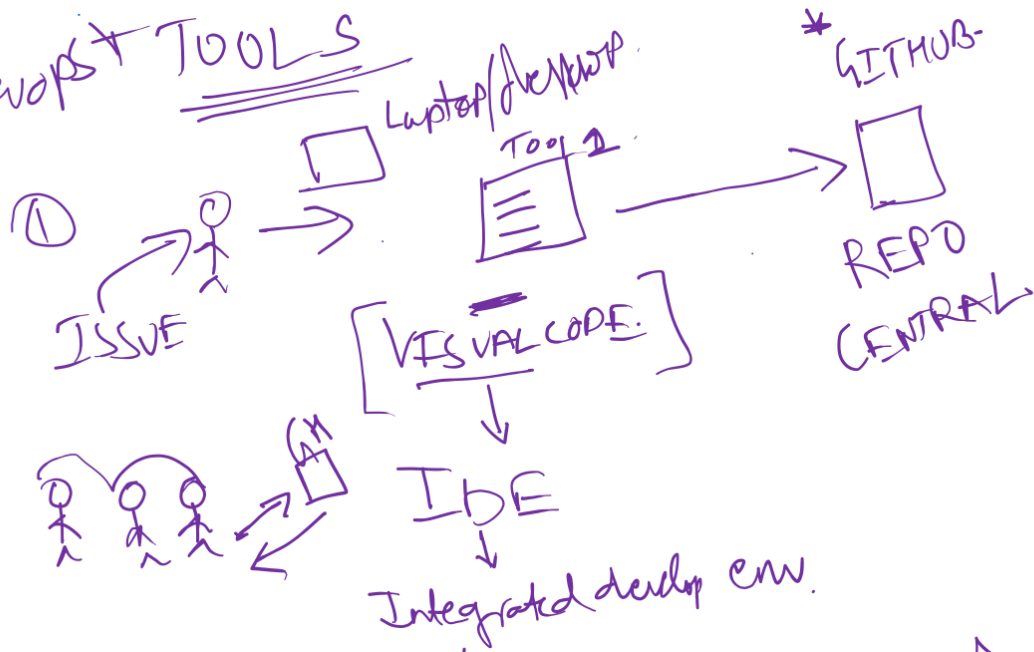TESTING / DBA / DEVOPS / JAVA / CODING

CICD

WEB - HOOK [CICD

-> GITHUB

CODE

CICD

GITHUB => Repo for codes

kubernet

Mobile

Storage

10.32.1 CODE 2hour WEBHOOK

Room → Jenkins → kubernet → Mobile

Repo

ISSUE

CICD

coder

Manager

WEBHOOK

GITHUB → JENKINS

CALL GITHUB

Push ← Shubam

Devops + TOOLS

① ISSUE → 👤 → □ Laptop/develop.

Tool 1
📄 VISUAL CODE → □ REPO CENTRAL *GITHUB

[VISUAL CODE]
↓
IDE
↓
Integrated develop env.

TOOL 2 GITHUB / GITLAB → 10 members

→ Team1 → → 20 mm
→ Team2 → → 30 mm
→ Space → Team3 → →

For String code
Devops activities done smoothly.

TOOL3

SONARQUBE.   DevOps   → Jerkinptie   → CICD.

JENKIS.

Tool1   Tool 2   Java   → Prod issue   Engine

CODE

BUG   → Muny   SONAR →   Vandhe   bharat

CODE →   taking tool.   Java   Google

                    Print("Meme batsize   1x

copying stadard Checkoppt

2

Case1   Case 2

Sonar   Sonar
is not there   is there

↓   ↓
PROD ISSUE   → Code analysis
                    → Bug free
                    → Duplicate lines

↓
→ Good Code

Good code   →   10MB / SBM
10 GB.   Play Store   100MB.

TOOL4 → MAVEN

JAVA APP ⇒ CICD ⇒ Container ⇒ Sonar.

10GB → 100 MB   file
        5 mB.

food
water   MAVEN.

dependent
heredity.   Dependent
                   1 code on other.

GITHUB → 100GB (Bigger code)   Repository
TOOL5   JFROG   (Storage).
        → smaller files (Binary)   → JFROG
                                          ↓
                                       Automation.

TOOL 6   Docker

10MB → [Docker ★] → IMAGE → CONTAINER

Networks | layers | ...

AWS kubernetes
Tool 7.

CONTAINER

100 Billion.

Flipkart χ failed tai

1000 Bill.

PODS.
→ Security
  Scaling
  maintaing.

Devops is not just tools

Tool 8.   Monitoring   kubernetes

GRAFANA   [K.] Prometheus

Madson = ↓ Vimalize
         www.pn
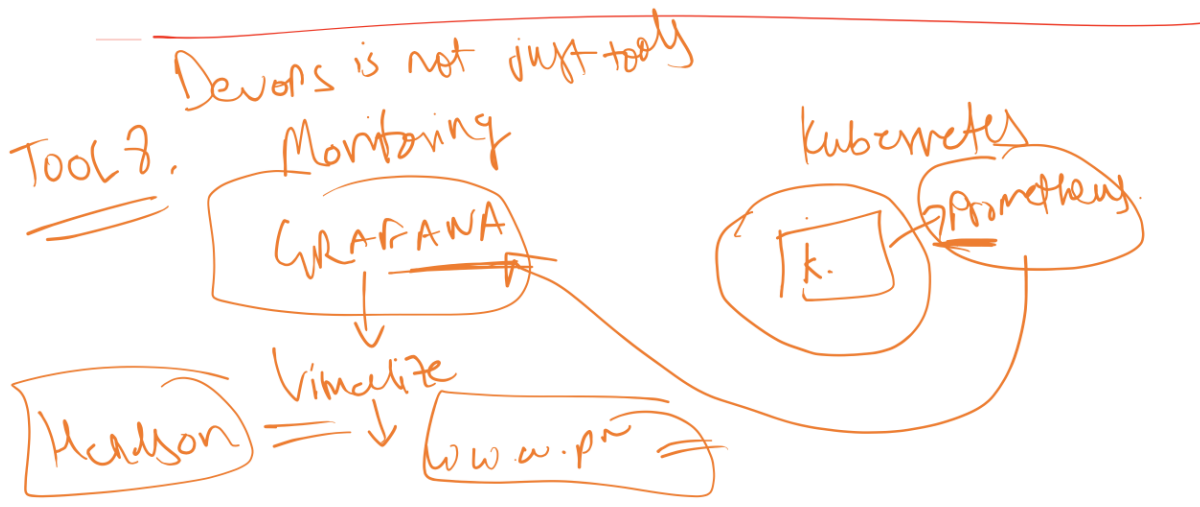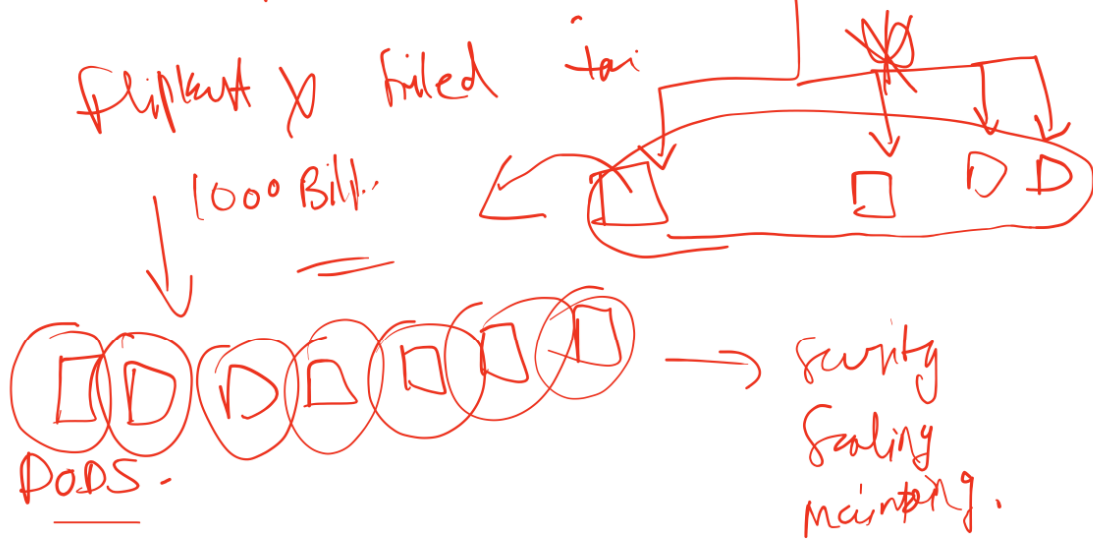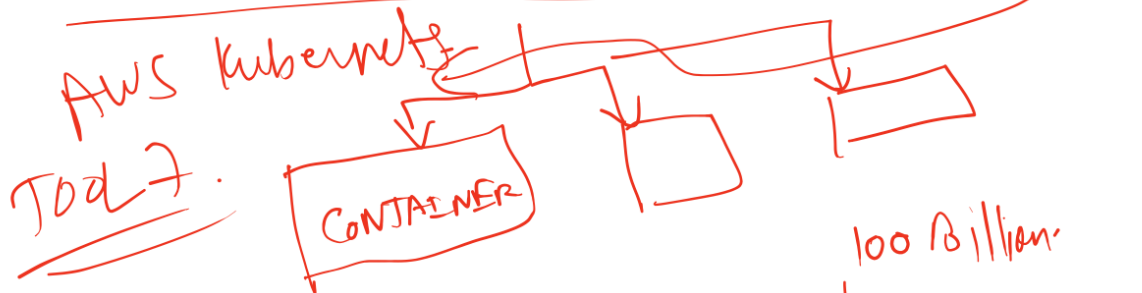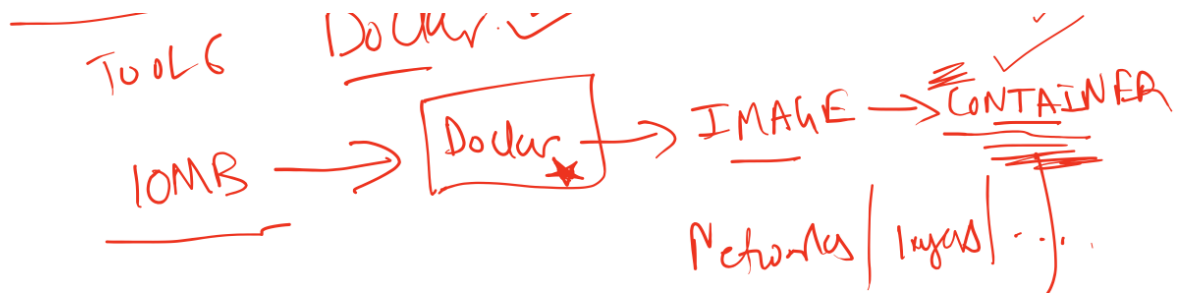
GRAFANA ⟶ See the Data.

DevOps is all about CONFIGURATION

*# Tool ⟶ CONFIG FILE

Jenkins ⟶ Engine [TOOLS TO Integrate]

CONFIG.
↓
* RUNS PIPELINE

⟶ JENKINSFILE
P1 ⟹ Vändre
P2 ⟹ Empres

Pipeline ⟶ Jenkins? Code ⟶

☺ ⟹ Prodothe data   Google

Jenkinfiel ⟶ C

Pipline. → CICD → Jenfiles → TOOL TO BIND

Stage1   Stg2   Prj2.

Servers.

JAVA → Trad ←/Jamun
Python → Braid of Runjob

Big Serur → Labels
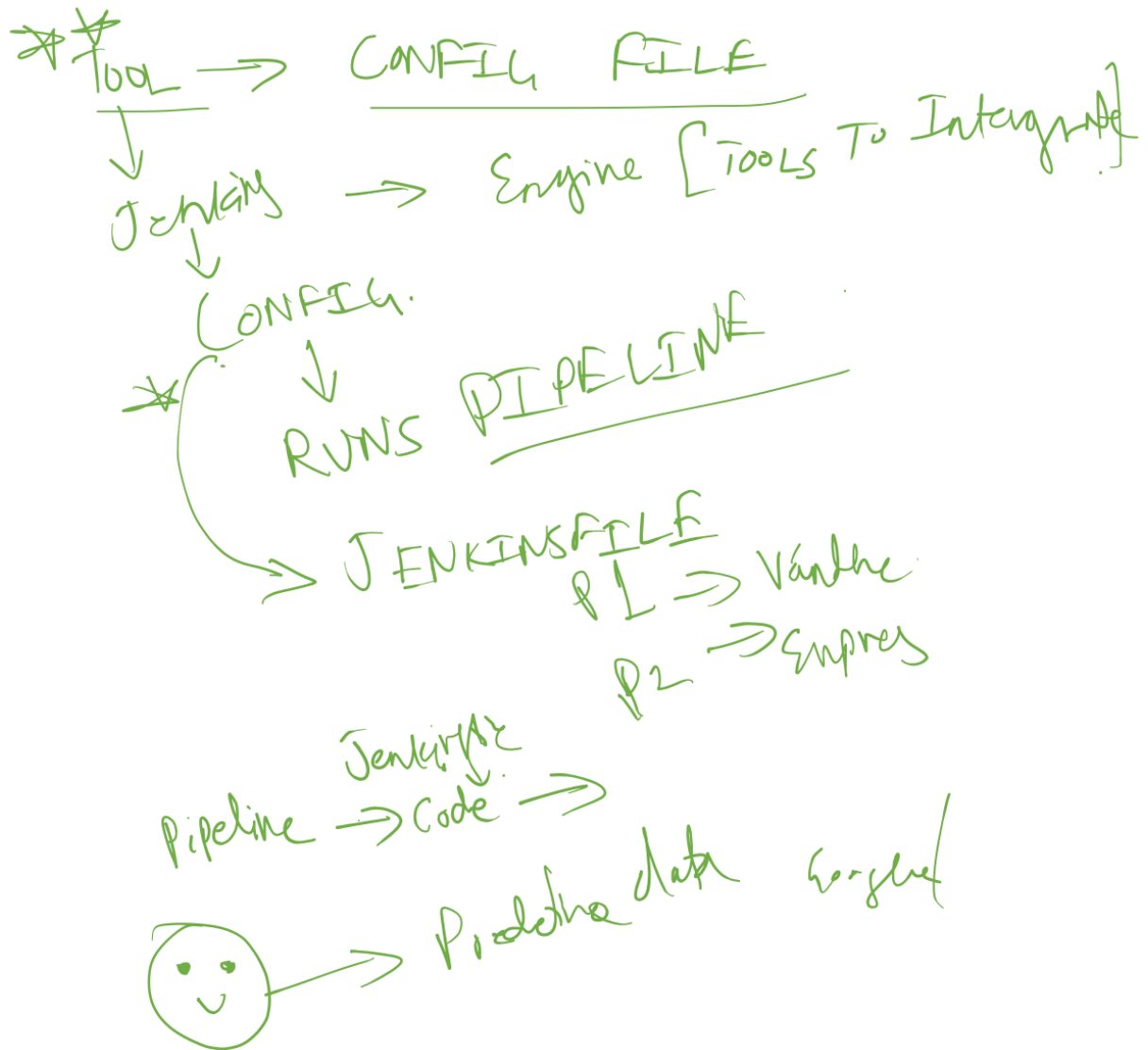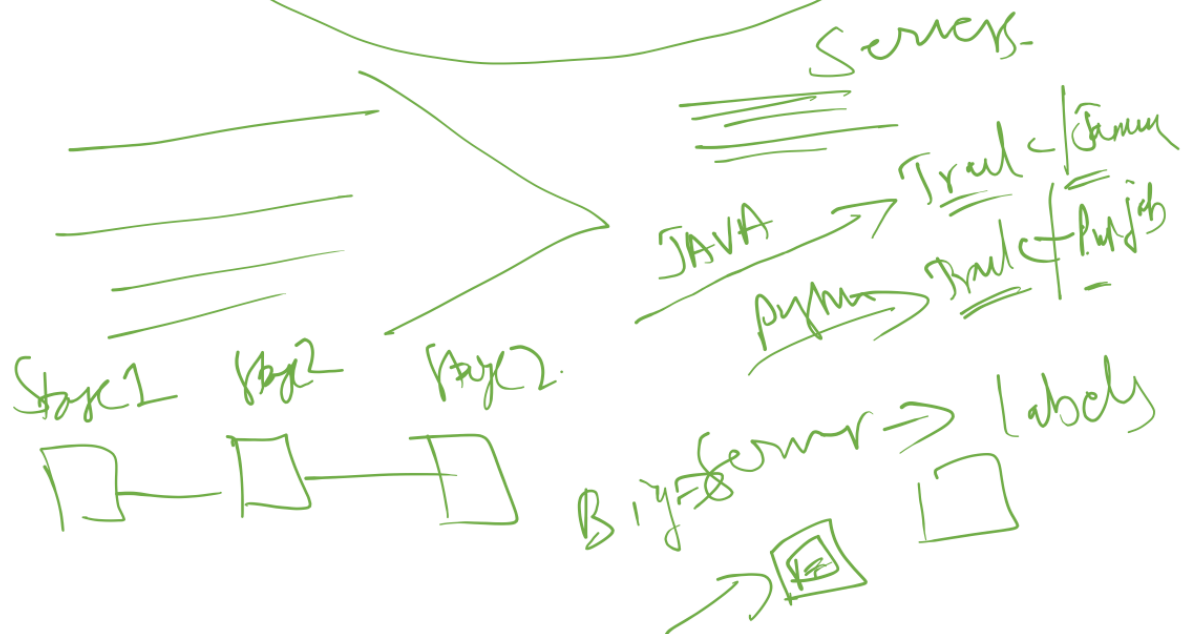
GITHUB ⇒ PROJECT 1 → | hello. java
                       test. py
Step1: Jenkisfile   RUSh. Sh
                       ↗ Jenkisfile

Sample ──→ CICD

Why my students are selling only product based

Why are you here
what package you need

Parents happy
You happy mam.

Buying ⟹ Internet + Advance

⊗ ⊕ Pipeline/Jenkins

4 days ⟵

Pwy/th

Github | Jenkins | Sonar | JUnit | Maven
Docker/container

GROOVY

Jenkins

Jenkinsfile (Pipeline { node { stages { stage }
Tools + Tools

Node | Agent | Server | machine | ABC

stage {
  steps {
  }
}

PDF/PPT + Classnotes + Recordings
will be available in same
web
session ?

Tool 1   Tool 2

→ Webhook

GITHUB/LAB

→ Jenkins

Hook
LINK

Tool 1 + TooL 2

RULES FOR HOOK GIT

Push Pull commit Revert log Checkout

Conflict
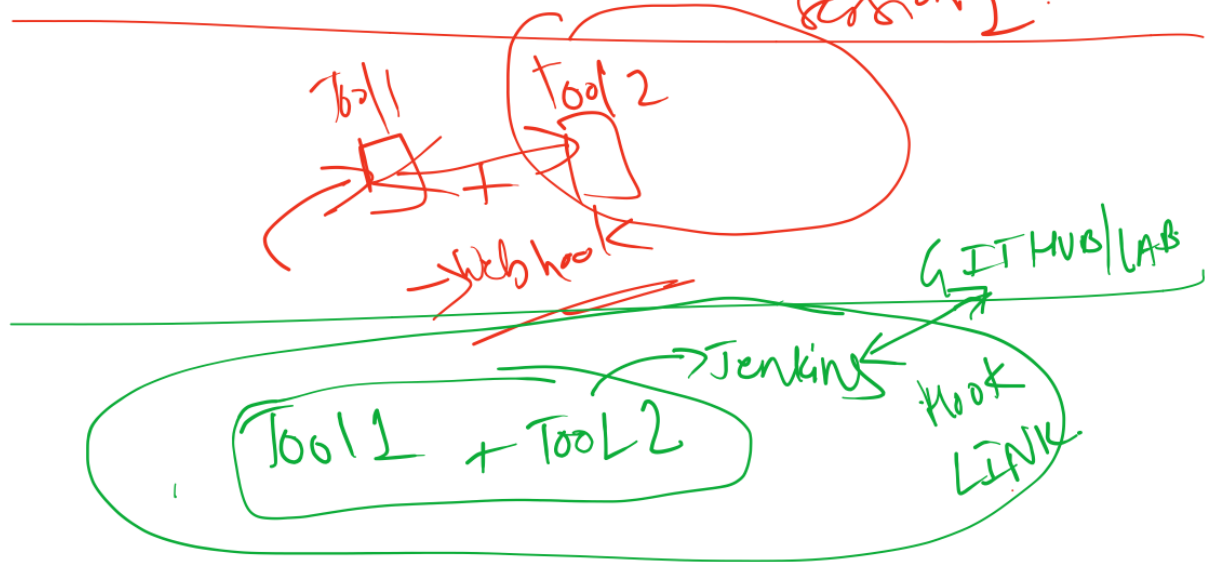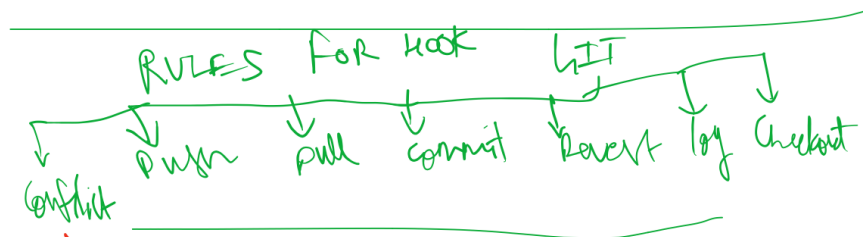
→ Main tool will be installed

Master

✗✗✗ MASTER + SLAVE

DevOps
v.

(Serv) Boss → Slaves [Save [child

→ Java ⟷ JDK
nodes → Node
Python Python → Save
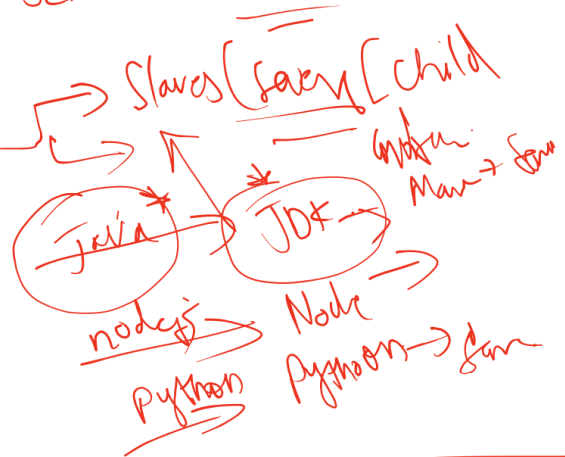
Variable1 = hello ${variable} → env
Variable2 = hi

echo $variable1

How the product/service based maintain
the branching strategy?

BRACH

GITHUB

TEAM1

Branch1

code1 (JAVA)

code2

Branch2

TEAM2

BRANCH2

code 2 (NODE)

TEAM 3

BRANCH3.

code3 (Python)

New code → Branches.

In Devops / Projects

① DEV ② QA ③ Stage ④ PROD.
(Test) (UAT)

Branching Strategy

MASTER (PROD)
HOTFIX (BUGS)

PROD not
(Money →)

java-hotfix → new version

Product
shipment

M1 →   develop
M2 →   develop → DEV
M3 →   develop   Test

Product   Payment
Product
order   cart   login   running

future-payment
future-delivery

Stage

FLIPKART

feature-deliver
fatu

Team 1

(Login) (Payment) (Delivery)

Team 3   Team 2

feature-delivery

Dev1 | dev2 | dev3

M1

address return contet

Master PROD

Master
fat → UAT STAGE

feature
sealer → QA/Cren

develop
develop

8:15 WE WILL
INSTALL TOOLS NEXT

Terrdom ⟹ 7/8th session ⟶

TODAY 11PM PDF   WILL BE
                      uploaded

GIT/GITBASH

DOCKER